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DATE: Friday, March 12, 2004

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☐	L4	L3 same focus$	53
☐	L3	tilt$ near3 offset$	1016
☐	L2	L1 same control$	16
☐	L1	tilt$ same detect$ same (inclina$ or angl$) same focus$ same offset$	34

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☐ 1. Document ID: US 6624879 B2

L2: Entry 1 of 16 File: USPT Sep 23, 2003

US-PAT-NO: 6624879
DOCUMENT-IDENTIFIER: US 6624879 B2

TITLE: Exposure apparatus and method for photolithography

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Imai; Yuji	Saitama-ken			JP

US-CL-CURRENT: 355/53; 355/55, 430/22

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 2. Document ID: US 6449029 B1

L2: Entry 2 of 16 File: USPT Sep 10, 2002

US-PAT-NO: 6449029
DOCUMENT-IDENTIFIER: US 6449029 B1
** See image for Certificate of Correction **

TITLE: Apparatus for providing levelling and focusing adjustments on a semiconductor wafer

DATE-ISSUED: September 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujimoto; Masashi	Tokyo			JP

US-CL-CURRENT: 355/53; 250/548, 257/E21.53, 355/55, 356/400

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

h e b b g e e e f e e h ef b e

☐ 3. Document ID: US 6429415 B1

L2: Entry 3 of 16 File: USPT Aug 6, 2002

US-PAT-NO: 6429415
DOCUMENT-IDENTIFIER: US 6429415 B1

TITLE: Wide field imaging through turbulent media

DATE-ISSUED: August 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rhoads; Geoffrey B.	West Linn	OR	97068	

US-CL-CURRENT: 250/208.1; 250/201.9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 4. Document ID: US 6344640 B1

L2: Entry 4 of 16 File: USPT Feb 5, 2002

US-PAT-NO: 6344640
DOCUMENT-IDENTIFIER: US 6344640 B1

TITLE: Method for wide field distortion-compensated imaging

DATE-ISSUED: February 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rhoads; Geoffrey B.	West Linn	OR	97068	

US-CL-CURRENT: 250/201.9; 250/208.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 5. Document ID: US 6333776 B1

L2: Entry 5 of 16 File: USPT Dec 25, 2001

US-PAT-NO: 6333776
DOCUMENT-IDENTIFIER: US 6333776 B1
** See image for Certificate of Correction **

TITLE: Projection exposure apparatus

DATE-ISSUED: December 25, 2001

INVENTOR-INFORMATION:

h e b b g e e e f e e h ef b e

NAME	CITY	STATE	ZIP CODE	COUNTRY
Taniguchi; Tetsuo	Ageo			JP

US-CL-CURRENT: 355/52; 355/53, 355/71

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 6. Document ID: US 6295256 B1

L2: Entry 6 of 16 File: USPT Sep 25, 2001

US-PAT-NO: 6295256
DOCUMENT-IDENTIFIER: US 6295256 B1

TITLE: Focusing bias adjusting apparatus and method in optical recording medium playing apparatus

DATE-ISSUED: September 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kimikawa; Yuichi	Kawagoe			JP
Kimura; Motoi	Kawagoe			JP
Yamazaki; Hitoshi	Kawagoe			JP
Bradshaw; Alex	Kawagoe			JP
Nozaki; Morio	Kawagoe			JP

US-CL-CURRENT: 369/44.32; 369/44.25, 369/53.19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 7. Document ID: US 6287734 B1

L2: Entry 7 of 16 File: USPT Sep 11, 2001

US-PAT-NO: 6287734
DOCUMENT-IDENTIFIER: US 6287734 B1
**** See image for Certificate of Correction ****

TITLE: Exposure method

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Imai; Yuji	Saitama-ken			JP

US-CL-CURRENT: 430/22; 430/30

h e b b g e e e f e e h ef b e

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 8. Document ID: US 6282161 B1

L2: Entry 8 of 16 File: USPT Aug 28, 2001

US-PAT-NO: 6282161
DOCUMENT-IDENTIFIER: US 6282161 B1

TITLE: Optical recording and reproducing apparatus, tilt adjusting method appropriate therefor, and recording control method

DATE-ISSUED: August 28, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Son; Yong-ki	Suwon			KR
Seong; Pyong-yong	Seoul			KR
Ryoo; Byung-ryul	Suwon			KR
Kim; Seok-jung	Suwon			KR
Seo; Joong-eon	Uiwang			KR
Hwang; In-wook	Suwon			KR
Seo; Young-sun	Sungnam			KR

US-CL-CURRENT: 369/53.19; 369/44.27, 369/53.12

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 9. Document ID: US 6245585 B1

L2: Entry 9 of 16 File: USPT Jun 12, 2001

US-PAT-NO: 6245585
DOCUMENT-IDENTIFIER: US 6245585 B1

TITLE: Method of providing levelling and focusing adjustments on a semiconductor wafer

DATE-ISSUED: June 12, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fujimoto; Masashi	Tokyo			JP

US-CL-CURRENT: 438/14; 257/E21.53

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

h e b b g e e e f e e h ef b e

☐ 10. Document ID: US 6242743 B1

L2: Entry 10 of 16 File: USPT Jun 5, 2001

US-PAT-NO: 6242743
DOCUMENT-IDENTIFIER: US 6242743 B1

TITLE: Non-orbiting tomographic imaging system

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeVito; Raymond P.	Palatine	IL		
Haines; Edward J.	Marengo	IL		
Domnanovich; James R.	Elk Grove Village	IL		

US-CL-CURRENT: 250/363.05; 250/363.01, 250/363.07

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 11. Document ID: US 5764518 A

L2: Entry 11 of 16 File: USPT Jun 9, 1998

US-PAT-NO: 5764518
DOCUMENT-IDENTIFIER: US 5764518 A

TITLE: Self reproducing fundamental fabricating machine system

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Collins; Charles M.	Burke	VA	22015	

US-CL-CURRENT: 700/95; 700/117

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 12. Document ID: US 5448053 A

L2: Entry 12 of 16 File: USPT Sep 5, 1995

US-PAT-NO: 5448053
DOCUMENT-IDENTIFIER: US 5448053 A

TITLE: Method and apparatus for wide field distortion-compensated imaging

DATE-ISSUED: September 5, 1995

h e b b g e e e f e e h ef b e

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rhoads; Geoffrey B.	West Linn	OR	97068	

US-CL-CURRENT: 250/201.9; 356/121

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 13. Document ID: US 5412200 A

L2: Entry 13 of 16 File: USPT May 2, 1995

US-PAT-NO: 5412200
DOCUMENT-IDENTIFIER: US 5412200 A

TITLE: Wide field distortion-compensating imaging system and methods

DATE-ISSUED: May 2, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rhoads; Geoffrey B.	West Linn	OR	97068	

US-CL-CURRENT: 250/201.9; 356/121

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 14. Document ID: US 5127604 A

L2: Entry 14 of 16 File: USPT Jul 7, 1992

US-PAT-NO: 5127604
DOCUMENT-IDENTIFIER: US 5127604 A

TITLE: Optical system

DATE-ISSUED: July 7, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klaus, Jr.; Benjamin	Lexington	MA		

US-CL-CURRENT: 244/3.16; 250/203.1, 250/342

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 15. Document ID: US 5072890 A

L2: Entry 15 of 16 File: USPT Dec 17, 1991

h e b b g e e e f e e h ef b e

US-PAT-NO: 5072890
DOCUMENT-IDENTIFIER: US 5072890 A

TITLE: Optical system

DATE-ISSUED: December 17, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klaus, Jr.; Benjamin	Lexington	MA		
MacKenzie; Gordon C.	North Billerica	MA		
Beckerleg; Richard A.	Boxford	MA		

US-CL-CURRENT: 244/3.16; 250/347, 250/353

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 16. Document ID: US 4973013 A

L2: Entry 16 of 16 File: USPT Nov 27, 1990

US-PAT-NO: 4973013
DOCUMENT-IDENTIFIER: US 4973013 A

TITLE: Seeker

DATE-ISSUED: November 27, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klaus, Jr.; Benjamin	Lexington	MA		

US-CL-CURRENT: 244/3.16

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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L1 same control$	16

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h e b b g e e e f e e h ef b e

L5: Entry 2 of 11 File: USPT Apr 8, 2003

DOCUMENT-IDENTIFIER: US 6545958 B1
TITLE: Optical-pickup device and tilt-detecting method thereof

Brief Summary Text (47):
In this method, the offset developing due to the tilt-detecting light and included in the focus-error signal or tracking-error signal obtained based on the light reflected by the recording plane of the optical disc is removed based on the detected tilt data. Thereby, it is possible to obtain the correct focus-error signal or tracking-error signal, and to perform proper focusing or tracking control.

Detailed Description Text (38):
The offset component in the focus-error signal is removed in a similar method. FIG. 10 shows the arrangement in which the radial tilt is detected. In the case where the offset is included in the focus-error signal due to the laser light for the tilt detection, offset correction can be performed using the same circuit as the circuit shown in FIG. 10. That is, the offset correction can be performed as a 10 result of the circuit same as that in the case of FIG. being connected to the output terminals of a twopiece light-receiving element or two light-receiving elements provided for detecting the focus-error signal. The gain of the gain adjustment circuit is set as a result of detecting the offset in the focus-error signal between a time the semiconductor laser on the side of the tilt detection is its turned-off state and a time the semiconductor laser on the side of the tilt detection is in its turned-on state. For example, the S-shape focus-error signal is detected as a result of lifting and lowering the objective lens 4 at each of the time the semiconductor laser on the side of the tilt detection is in its turned-off state and the time the semiconductor laser on the side of the tilt detection is its turned-on state. Then, the offset between the time the semiconductor laser on the side the tilt detection is in its turned-off state and the time the semiconductor laser on the side of the tilt detection is in its turned-on state is detected. Such an operation is performed at several positions on the optical disc 6a or 6b, and the mean values are obtained. Thereby, the value corresponding to (a-b) is detected. Then, the offset component can be removed in a process similar to that in the above-described case for the tracking-error signal.

Issued US Original Classification (1):
369/44.32

Current US Original Classification (1):
369/44.32

Current US Cross Reference Classification (1):
369/53.19

Issued US Cross Reference Classification (1):
369/53.19

Field of Search Class/SubClass (1):
369/44.32

Field of Search Class/SubClass (2):
369/94

Field of Search Class/SubClass (3):
369/44.23

Field of Search Class/SubClass (4):
369/44.37

Field of Search Class/SubClass (5):
369/44.38

Field of Search Class/SubClass (6):
369/53.19

Field of Search Class/SubClass (7):
369/53.35

US Reference US Original Classification (2):
369/44.32

US Reference US Original Classification (3):
369/44.32

US Reference US Original Classification (4):
369/53.35

US Reference US Original Classification (5):
369/44.37

US Reference US Original Classification (6):
369/44.32

US Reference US Original Classification (7):
369/44.23

US Reference US Original Classification (8):
369/112.15

US Reference Group (2):
5523989 19960600 Ishibashi 369/44.32

US Reference Group (3):
5751680 19980500 Ishibashi et al. 369/44.32

US Reference Group (4):
5768232 19980600 Muramatsu et al. 369/53.35

US Reference Group (5):
6172958 20010100 Mochizuki et al. 369/44.37

US Reference Group (6):
6246648 20010600 Kuribayashi 369/44.32

US Reference Group (7):
6304526 20011000 Nagashima et al. 369/44.23

US Reference Group (8):
6353587 20020300 Hong et al. 369/112.15

L5: Entry 5 of 11 File: USPT Nov 6, 2001

DOCUMENT-IDENTIFIER: US 6314067 B1
TITLE: Optical disk having pattern for tilt detection

Detailed Description Text (48):
When the disk is tilted, asymmetry of a laser beam occurs and side lobes increase as shown in FIGS. 2A-2C and 3A-3C. When a side lobe portion is focused on a tilt detection pattern, an offset is generated at a tracking error signal. The opposite offsets are generated in the first tilt detection pattern area 20 and the second tilt detection pattern area 22 shown in FIG. 5 to show the direction of tilt. However, when the tilt detection area and the direction of a tilt do not match, an offset signal is not generated. Therefore, a recording medium according to the present invention has two different tilt detection patterns recorded on tracks which are sequentially disposed above and below with respect to a reference track, or the same tilt detection patterns recorded on the adjacent tracks.

Issued US Original Classification (1):
369/44.32

Current US Original Classification (1):
369/44.32

Current US Cross Reference Classification (1):
369/44.28

Current US Cross Reference Classification (2):
369/53.19

Issued US Cross Reference Classification (1):
369/44.28

Issued US Cross Reference Classification (2):
369/53.19

Field of Search Class/SubClass (1):
369/44.32

Field of Search Class/SubClass (2):
369/44.28

Field of Search Class/SubClass (3):
369/44.27

Field of Search Class/SubClass (4):
369/44.29

Field of Search Class/SubClass (5):
369/44.23

Field of Search Class/SubClass (6):
369/44.25

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Field of Search Class/SubClass (7):
369/44.34

Field of Search Class/SubClass (8):
369/44.35

Field of Search Class/SubClass (9):
369/47

Field of Search Class/SubClass (10):
369/48

Field of Search Class/SubClass (11):
369/54

Field of Search Class/SubClass (12):
369/58

Field of Search Class/SubClass (13):
369/47.1

Field of Search Class/SubClass (14):
369/53.1

US Reference US Original Classification (1):
369/46

US Reference US Original Classification (2):
369/44.32

US Reference US Original Classification (4):
369/54

US Reference US Cross Reference Classification (3):
369/44.34

US Reference Group (1):
4663751 19870500 Kaku et al. 369/46

US Reference Group (2):
5627808 19970500 Hajjar et al. 369/44.32

US Reference Group (3):
5646919 19970700 Eastman et al. 369/44.34

US Reference Group (4):
5703855 19971200 Kirino et al. 369/54

L5: Entry 6 of 11 File: USPT Sep 25, 2001

DOCUMENT-IDENTIFIER: US 6295256 B1
TITLE: Focusing bias adjusting apparatus and method in optical recording medium playing apparatus

Detailed Description Text (28):
In the case of playing the disc in a state where a tilt occurs between the pickup 10 and optical disc 12, reading error rate characteristics for the tilt angle become as shown by a solid line A in FIG. 6. In step S11 of the setup routine, however, after the bias generating circuit 48 performed the focusing bias adjustment to generate the level of the bias voltage Vbias so as to cancel the offset component Voffset, the tilt correction is executed by the liquid crystal tilt servo control in step S21 of the main routine and, further, the focusing bias adjustment is executed again in step S24, so that the reading error rate characteristics for the tilt angle are improved as shown by a solid line B in FIG. 8. The reading error rate can be suppressed even for a relatively large tilt angle. When the focusing bias adjustment is not executed again, the reading error rate characteristics for the tilt angle are improved as shown by a broken line C in FIG. 8. It will, therefore, be understood from those characteristics that by executing the focusing bias adjustment again, the tilt margin increases and the deterioration of the reading error rate can be prevented when a tilt further occurs during the playback.

Issued US Original Classification (1):
369/44.32

Current US Original Classification (1):
369/44.32

Current US Cross Reference Classification (1):
369/44.25

Current US Cross Reference Classification (2):
369/53.19

Issued US Cross Reference Classification (1):
369/44.25

Issued US Cross Reference Classification (2):
369/53.19

Field of Search Class/SubClass (1):
369/44.11

Field of Search Class/SubClass (2):
369/44.23

Field of Search Class/SubClass (3):
369/44.25

Field of Search Class/SubClass (4):

h e b b g e e e f c e e h e ge

369/44.27

Field of Search Class/SubClass (5):
369/44.28

Field of Search Class/SubClass (6):
369/44.29

Field of Search Class/SubClass (7):
369/44.32

Field of Search Class/SubClass (8):
369/44.33

Field of Search Class/SubClass (9):
369/44.34

Field of Search Class/SubClass (10):
369/44.35

Field of Search Class/SubClass (11):
369/44.41

Field of Search Class/SubClass (12):
369/47.1

US Reference US Original Classification (1):
369/53.22

US Reference Group (1):
5742575 19980400 Yamakawa et al. 369/53.22

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Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 6625093 B1

L5: Entry 1 of 11 File: USPT Sep 23, 2003

US-PAT-NO: 6625093
DOCUMENT-IDENTIFIER: US 6625093 B1

TITLE: Apparatus and method for reproducing record for optical recording medium

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hong; Seong Pyo	Seoul			KR
Park; Sang On	Kyonggi-do			KR
Cho; Won Hyoung	Seoul			KR

US-CL-CURRENT: 369/44.32

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw Ds

☐ 2. Document ID: US 6545958 B1

L5: Entry 2 of 11 File: USPT Apr 8, 2003

US-PAT-NO: 6545958
DOCUMENT-IDENTIFIER: US 6545958 B1

TITLE: Optical-pickup device and tilt-detecting method thereof

DATE-ISSUED: April 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hirai; Hideaki	Kanagawa			JP
Koide; Hiroshi	Kanagawa			JP
Akiyama; Hiroshi	Kanagawa			JP

US-CL-CURRENT: 369/44.32; 369/53.19

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Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 3. Document ID: US 6483797 B1

L5: Entry 3 of 11 File: USPT Nov 19, 2002

US-PAT-NO: 6483797
DOCUMENT-IDENTIFIER: US 6483797 B1

TITLE: Apparatuses and methods for reading after writing in optical recording systems

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oakley; William S.	Burlingame	CA		
Manavi; Mahdad	San Jose	CA		
Mannion; A. Joel	Sunnyvale	CA		

US-CL-CURRENT: 369/112.01; 369/112.29, 369/44.23

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 4. Document ID: US 6343053 B1

L5: Entry 4 of 11 File: USPT Jan 29, 2002

US-PAT-NO: 6343053
DOCUMENT-IDENTIFIER: US 6343053 B1

TITLE: Objective lens driving apparatus for driving an objective lens of an optical disk drive

DATE-ISSUED: January 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akanuma; Goichi	Tokyo			JP
Koide; Hiroshi	Kanagawa			JP

US-CL-CURRENT: 369/44.14; 359/814, 369/44.11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 5. Document ID: US 6314067 B1

L5: Entry 5 of 11 File: USPT Nov 6, 2001

h e b b g e e e f e e h ef b e

US-PAT-NO: 6314067
DOCUMENT-IDENTIFIER: US 6314067 B1

TITLE: Optical disk having pattern for tilt detection

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chung; Chong-sam	Sungnam			KR
Lee; Chul-woo	Sungnam			KR
Park; In-sik	Suwon			KR

US-CL-CURRENT: 369/44.32; 369/44.28, 369/53.19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

6. Document ID: US 6295256 B1

L5: Entry 6 of 11 File: USPT Sep 25, 2001

US-PAT-NO: 6295256
DOCUMENT-IDENTIFIER: US 6295256 B1

TITLE: Focusing bias adjusting apparatus and method in optical recording medium playing apparatus

DATE-ISSUED: September 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kimikawa; Yuichi	Kawagoe			JP
Kimura; Motoi	Kawagoe			JP
Yamazaki; Hitoshi	Kawagoe			JP
Bradshaw; Alex	Kawagoe			JP
Nozaki; Morio	Kawagoe			JP

US-CL-CURRENT: 369/44.32; 369/44.25, 369/53.19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

7. Document ID: US 6295255 B1

L5: Entry 7 of 11 File: USPT Sep 25, 2001

US-PAT-NO: 6295255
DOCUMENT-IDENTIFIER: US 6295255 B1

TITLE: Optical pickup having a tilt mechanism to adjust an optical axis of an incident light beam

h e b b g e e e f e e h ef b e

DATE-ISSUED: September 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Seo; Young-sun	Sungnam			KR
Choi; Han-kook	Suwon			KR
Seong; Pyong-yong	Seoul			KR
Park; In-sik	Suwon			KR
Park; Hee-deuk	Sungnam			KR
Cheong; Young-min	Seoul			KR
Shin; Dong-ho	Seoul			KR

US-CL-CURRENT: 369/44.32; 369/112.29, 369/44.15, 369/44.22

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 8. Document ID: US 5537384 A

L5: Entry 8 of 11 File: USPT Jul 16, 1996

US-PAT-NO: 5537384
DOCUMENT-IDENTIFIER: US 5537384 A
**** See image for Certificate of Correction ****

TITLE: Focus error detector

DATE-ISSUED: July 16, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Chul-woo	Seoul			KR
Chung; Chong-sam	Sungnam			KR
Yoo; Jan-hoon	Seoul			KR
Rim; Kyung-hwa	Seoul			KR

US-CL-CURRENT: 369/53.28; 369/112.21, 369/120

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 9. Document ID: US 5327408 A

L5: Entry 9 of 11 File: USPT Jul 5, 1994

US-PAT-NO: 5327408
DOCUMENT-IDENTIFIER: US 5327408 A
**** See image for Certificate of Correction ****

TITLE: Optical disk with sector servo patterns compensating for variations in pattern size and/or radial velocity

h e b b g e e e f e e h ef b e

DATE-ISSUED: July 5, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Belser; Karl A.	Los Gatos	CA		

US-CL-CURRENT: 369/44.26; 369/275.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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10. Document ID: US 4866688 A

L5: Entry 10 of 11 File: USPT Sep 12, 1989

US-PAT-NO: 4866688
DOCUMENT-IDENTIFIER: US 4866688 A

TITLE: Composite tracking servo system for optical disc apparatus with track offset correction

DATE-ISSUED: September 12, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohtake; Masatoshi	Ome			JP
Yonezawa; Seiji	Hachioji			JP
Tsuyoshi; Toshiaki	Kokubunji			JP
Ichino; Kazuo	Tokyo			JP
Fukui; Yukio	Machida			JP
Takeuchi; Takashi	Fujisawa			JP
Maeda; Takeshi	Kokubunji			JP
Kaku; Toshimitsu	Sagamihara			JP

US-CL-CURRENT: 369/44.13; 369/100, 369/275.4, 369/44.28

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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11. Document ID: US 4661944 A

L5: Entry 11 of 11 File: USPT Apr 28, 1987

US-PAT-NO: 4661944
DOCUMENT-IDENTIFIER: US 4661944 A

TITLE: Optical recording/playback apparatus having a focusing control system with reduced spot-offset sensitivity

DATE-ISSUED: April 28, 1987

INVENTOR-INFORMATION:

h e b b g e e e f e e h ef b e

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van Sluys; Robert N. J.	Eindhoven			NL

US-CL-CURRENT: 369/44.23; 250/202, 369/44.32, 369/44.41

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. De

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Terms	Documents
L4 and 369/$	11

Display Format: CIT Change Format

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WEST Search History

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DATE: Friday, March 12, 2004

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		DB=USPT; PLUR=YES; OP=ADJ	
☐	L5	L4 and 369/$	11
☐	L4	L3 same focus$	53
☐	L3	tilt$ near3 offset$	1016
☐	L2	L1 same control$	16
☐	L1	tilt$ same detect$ same (inclina$ or angl$) same focus$ same offset$	34

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 17 of 17 returned.

☐ 1. Document ID: US 6648708 B2

L6: Entry 1 of 17 File: USPT Nov 18, 2003

US-PAT-NO: 6648708
DOCUMENT-IDENTIFIER: US 6648708 B2

TITLE: Apparatus and method for measuring cathode-ray tube neck alignment and tilt

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Monks; Christopher	Greensburg	PA		

US-CL-CURRENT: 445/3; 33/552, 33/554, 445/2, 445/61, 445/63, 445/68

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 2. Document ID: US 6562528 B2

L6: Entry 2 of 17 File: USPT May 13, 2003

US-PAT-NO: 6562528
DOCUMENT-IDENTIFIER: US 6562528 B2
**** See image for Certificate of Correction ****

TITLE: Method for determining and calibrating image plane tilt and substrate plane tilt in photolithography

DATE-ISSUED: May 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Novak; W. Thomas	Hillsborough	CA		

US-CL-CURRENT: 430/22; 430/30

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

h e b b g e e e f e e h ef b e

☐ 3. Document ID: US 6529853 B1

L6: Entry 3 of 17 File: USPT Mar 4, 2003

US-PAT-NO: 6529853
DOCUMENT-IDENTIFIER: US 6529853 B1

TITLE: Virtual positioning media control system

DATE-ISSUED: March 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bauer; Will N.	Edmonton			CA

US-CL-CURRENT: 702/152; 348/169

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 4. Document ID: US 6513252 B1

L6: Entry 4 of 17 File: USPT Feb 4, 2003

US-PAT-NO: 6513252
DOCUMENT-IDENTIFIER: US 6513252 B1
** See image for Certificate of Correction **

TITLE: Vehicle compass compensation

DATE-ISSUED: February 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schierbeek; Kenneth L.	Zeeland	MI		
Hoekstra; Eric J.	Holland	MI		
Blank; Rodney K.	Zeeland	MI		
Veiseh; Merdad	Grand Haven	MI		
DeVette; Gregory H.	West Olive	MI		
Schofield; Kenneth	Holland	MI		

US-CL-CURRENT: 33/356; 324/244, 33/357

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 5. Document ID: US 6320646 B1

L6: Entry 5 of 17 File: USPT Nov 20, 2001

US-PAT-NO: 6320646
DOCUMENT-IDENTIFIER: US 6320646 B1

h e b b g e e e f e e h ef b e

** See image for Certificate of Correction **

TITLE: Exposure apparatus, method of controlling same, and device manufacturing method

DATE-ISSUED: November 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mouri; Takashi	Tokyo			JP

US-CL-CURRENT: 355/53; 355/77

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 6. Document ID: US 6128080 A

L6: Entry 6 of 17 File: USPT Oct 3, 2000

US-PAT-NO: 6128080
DOCUMENT-IDENTIFIER: US 6128080 A
** See image for Certificate of Correction **

TITLE: Extended range interferometric refractometer

DATE-ISSUED: October 3, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Janik; Gary R.	Palo Alto	CA		
Shepard; Douglas W.	Santa Barbara	CA		
Trainoff; Steven P.	Carpinteria	CA		
Phillips; David T.	Santa Barbara	CA		

US-CL-CURRENT: 356/491; 356/517

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 7. Document ID: US 5831164 A

L6: Entry 7 of 17 File: USPT Nov 3, 1998

US-PAT-NO: 5831164
DOCUMENT-IDENTIFIER: US 5831164 A

TITLE: Linear and rotational accelerometer

DATE-ISSUED: November 3, 1998

INVENTOR-INFORMATION:

h e b b g e e e f e e h ef b e

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reddi; M. Mahadeva	Bryn Mawr	PA		
DeCleene; Donald F.	Wyndmoor	PA		

US-CL-CURRENT: 73/514.01; 73/510, 73/514.02, 73/514.18, 73/514.21, 73/514.22, 73/514.32, 73/514.36, 73/514.38

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 8. Document ID: US 5665895 A

L6: Entry 8 of 17 File: USPT Sep 9, 1997

US-PAT-NO: 5665895
DOCUMENT-IDENTIFIER: US 5665895 A
**** See image for Certificate of Correction ****

TITLE: Apparatus and method for calibrating a storage tank

DATE-ISSUED: September 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hart; Robert P.	East Hampton	CT		
Malinin; Leonid M.	Cambridge	MA		

US-CL-CURRENT: 73/1.73; 702/100, 73/49.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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☐ 9. Document ID: US 5606124 A

L6: Entry 9 of 17 File: USPT Feb 25, 1997

US-PAT-NO: 5606124
DOCUMENT-IDENTIFIER: US 5606124 A

TITLE: Apparatus and method for determining the gravitational orientation of a well logging instrument

DATE-ISSUED: February 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doyle; Mark R.	Houston	TX		
Chace; David M.	Houston	TX		
Roessler; Dennis E.	Houston	TX		
Evans; John T.	Houston	TX		
Bergren; Paul A.	Houston	TX		

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US-CL-CURRENT: 73/152.01; 33/304

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 10. Document ID: US 5354992 A

L6: Entry 10 of 17 File: USPT Oct 11, 1994

US-PAT-NO: 5354992
DOCUMENT-IDENTIFIER: US 5354992 A

TITLE: Tilt compensated error correcting system

DATE-ISSUED: October 11, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; Gary J.	Akron	OH		
Tillander; Thomas	Bay Village	OH		
Harris; David E.	Powell	OH		

US-CL-CURRENT: 250/548; 356/400

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 11. Document ID: US 5302824 A

L6: Entry 11 of 17 File: USPT Apr 12, 1994

US-PAT-NO: 5302824
DOCUMENT-IDENTIFIER: US 5302824 A

TITLE: Measurement of relative detector gain

DATE-ISSUED: April 12, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Prager; Kenneth E.	Los Angeles	CA		

US-CL-CURRENT: 250/252.1; 250/332, 250/334

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

☐ 12. Document ID: US 5131801 A

L6: Entry 12 of 17 File: USPT Jul 21, 1992

US-PAT-NO: 5131801

h e b b g e e e f e e h ef b e

DOCUMENT-IDENTIFIER: US 5131801 A

TITLE: Forklift fork tilt angle indicator

DATE-ISSUED: July 21, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Melanson; Clayton C.	Arlington	TX		

US-CL-CURRENT: 414/635; 33/366.26, D34/34

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 13. Document ID: US 4864862 A

L6: Entry 13 of 17 File: USPT Sep 12, 1989

US-PAT-NO: 4864862
DOCUMENT-IDENTIFIER: US 4864862 A

TITLE: Boresonic inspection system

DATE-ISSUED: September 12, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nottingham; Lawrence D.	Charlotte	NC		
Michaels; Thomas E.	Freeville	NY		
Michaels; Jennifer E.	Freeville	NY		

US-CL-CURRENT: 73/623; 73/1.83, 73/1.84

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 14. Document ID: US 4757716 A

L6: Entry 14 of 17 File: USPT Jul 19, 1988

US-PAT-NO: 4757716
DOCUMENT-IDENTIFIER: US 4757716 A

TITLE: Boresonic inspection system

DATE-ISSUED: July 19, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nottingham; Lawrence D.	Charlotte	NC		
Michaels; Thomas E.	Freeville	NY		

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Michaels; Jennifer E. Freeville NY

US-CL-CURRENT: 73/623; 73/865.8, 901/44

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 15. Document ID: US 4335520 A

L6: Entry 15 of 17 File: USPT Jun 22, 1982

US-PAT-NO: 4335520
DOCUMENT-IDENTIFIER: US 4335520 A

TITLE: Survey spar system for precision offshore seafloor surveys

DATE-ISSUED: June 22, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wilson; Jeffrey V.	Camarillo	CA		

US-CL-CURRENT: 33/312; 33/313, 405/202

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 16. Document ID: US 4270073 A

L6: Entry 16 of 17 File: USPT May 26, 1981

US-PAT-NO: 4270073
DOCUMENT-IDENTIFIER: US 4270073 A

TITLE: Position control in disk drive system

DATE-ISSUED: May 26, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harman; Jefferson H.	Thousand Oaks	CA		

US-CL-CURRENT: 318/632; 318/646, 360/77.03

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

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☐ 17. Document ID: US 3962671 A

L6: Entry 17 of 17 File: USPT Jun 8, 1976

US-PAT-NO: 3962671

h e b b g e e e f e e h ef b e

DOCUMENT-IDENTIFIER: US 3962671 A

TITLE: Calibration transducer

DATE-ISSUED: June 8, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jilling; Adam	Newport	RI		

US-CL-CURRENT: 367/13; 367/137, 73/1.75, 73/1.82, 73/167

Terms	Documents
L3 same calibra$	17

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L7: Entry 1 of 1 File: USPT Sep 12, 1989

DOCUMENT-IDENTIFIER: US 4866688 A
TITLE: Composite tracking servo system for optical disc apparatus with track offset correction

Brief Summary Text (3):
As an off-track deviation detecting system adopted widely at present in an optical disc file system, there can be mentioned a so-called push-pull method according to which guide grooves referred to as pregrooves are previously provided on the disc surface, wherein detection of the off-track deviation (hereinafter referred to as the track deviation) is realized by making use of such a phenomenon that upon occurrence of deviation of a light spot focused onto the pregroove from the latter, change will occur in the distribution of the quantity of reflected light due to diffraction of light brought about by the regroove. Although the push-pull system enjoys excellent features preferable for the optical disc file, the system is disadvantageous in respect to high susceptibility to the influence of tilting of the disc, introducing an offset component into the track deviation detecting loop, as the result of which the target or aimed point of the servo system is undesirably shifted, thus making it difficult or even impossible to realize the correct tracking operation. For particulars of the push-pull tracking servo system, reference may be made to, for example, U.S. Pat. No. 4,363,116.

Detailed Description Text (29):
FIG. 15 shows still another embodiment of the present invention in a block diagram. This embodiment differs from the one shown in FIG. 12 in that the optical axis deviation .delta.' detected with reference to the mirror surface area is quantized by an A/D converter 445, the resulting data being stored in a memory 446 for one track and read out therefrom immediately after rough access operation to be subsequently restored into the analogue value through a D/A converter 447, while Kf' is integrated by a stored optical axis deviation correction calibrating circuit 448. Further, there are provided a counter 449 for counting the jump pulses during the fine access operation, a D/A converter 450 for converting the content of the counter 441 to an analogue value, and a circuit 451 for multiplying the output value of the D/A converter 450 with a jump offset correcting factor Kj. Additionally, a switch 452 is provided for selecting the open-loop correction on the basis of the output Kf, Kf' or Kj or information resulting from combination of these output. In the course of the normal tracking operation, only the contact c of the selected switch 452 is closed, whereby the circuit configuration is realized which is utterly same as that of the system shown in FIG. 14. During a period elapsing until the latest mirror face data is sampled in the rough access sequence for shifting the tracking actuator itself, the selector switch 452 is set to the state where only the contact b is closed. On the other hand, in the case of the fine access sequence in which successive track jumpings take place, the contacts a and c or alternatively a and b of the selector switch 452 are closed. By changing over the selector switch 452 in dependence on the types of sequences in the manner mentioned above, the open offset correcting loop 40 is maintained in the operating state not only in the steady state but also during the seeking operation, whereby delay in response of the offset suppressing loop inherent to the composite tracking system can be componented for successifully.

Issued US Original Classification (1):
369/44

Current US Original Classification (1):
369/44.13

Current US Cross Reference Classification (1):
369/100

Current US Cross Reference Classification (2):
369/275.4

Current US Cross Reference Classification (3):
369/44.28

Issued US Cross Reference Classification (1):
369/46

Issued US Cross Reference Classification (2):
369/100

Issued US Cross Reference Classification (3):
369/275

Field of Search Class/SubClass (1):
369/44

Field of Search Class/SubClass (2):
369/46

Field of Search Class/SubClass (3):
369/100

Field of Search Class/SubClass (4):
369/54

Field of Search Class/SubClass (5):
369/58

Field of Search Class/SubClass (6):
369/270

US Reference US Original Classification (1):
369/30

US Reference US Original Classification (2):
369/46

US Reference US Original Classification (3):
369/44

US Reference US Original Classification (4):
369/44

US Reference Group (1):
4363116 19821200 Kleuters et al. 369/30

US Reference Group (2):
4663751 19870500 Kaku et al. 369/46

h e b b g e e e f c e e h e ge

US Reference Group (3):
4707816 19871100 Yonezawa et al. 369/44

US Reference Group (4):
4748609 19880500 Yonezawa et al. 369/44

CLAIMS:

5. A tracking servo system according to claim 3, wherein said third means includes calibrating means for multiplying said second track deviation signal with a predetermined constant.

15. A tracking servo system, comprising:

a recording medium provided with pregrooves having a plurality of discontinued regions;

an optical system for forming a light spot on said recording medium;

photoelectric transducer means having at least two light receiving portions;

first means coupled to said photoelectric transducer means to produce a first track error signal on the basis of a first track deviation signal derived by processing differently the outputs of said light receiving portions;

second means coupled to said photoelectric transducer means for detecting intermittingly the outputs of said transducer means obtained during a period in which said light spot is positioned on said discontinued region to thereby output a second track error signal on the basis of a second track deviation signal obtained intermittingly through said intermittent detection;

third means coupled to either one of said first or second means for outputting an offset correcting signal on the basis of said first or second track deviation signal;

composite means coupled to said first, second and third means for combining compositely said first track error signal, said second error signal and said offset correcting signal; and

tracking means coupled to said composite means for controlling the position irradiated by said light spot in accordance with the output of said composite means;

wherein each of said discontinued regions is provided with at least a mirror surface area of a diameter greater than that of said light spot, said third means being coupled to said first means for outputting said offset correcting signal on the basis of said first track deviation signal obtained during a period in which said light spot is positioned on said mirror surface area; and

wherein said third means include a sample and hold circuit for sampling said first track deviation signal during a period in which said light spot is positioned on said mirror surface area and holding the sampled signal, and a calibration circuit for multiplying the output of said sample and hold circuit with a predetermined factor.

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Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 4866688 A

L7: Entry 1 of 1 File: USPT Sep 12, 1989

US-PAT-NO: 4866688
DOCUMENT-IDENTIFIER: US 4866688 A

TITLE: Composite tracking servo system for optical disc apparatus with track offset correction

DATE-ISSUED: September 12, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohtake; Masatoshi	Ome			JP
Yonezawa; Seiji	Hachioji			JP
Tsuyoshi; Toshiaki	Kokubunji			JP
Ichino; Kazuo	Tokyo			JP
Fukui; Yukio	Machida			JP
Takeuchi; Takashi	Fujisawa			JP
Maeda; Takeshi	Kokubunji			JP
Kaku; Toshimitsu	Sagamihara			JP

US-CL-CURRENT: 369/44.13; 369/100, 369/275.4, 369/44.28

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De

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